

GOVERNMENT OF TELANGANA
ABSTRACT

Irrigation and CAD Department – **Medigadda Barrage** - Construction of barrage with radial gates, hoisting arrangements including formation of guide bunds on either side of barrage etc., across Godavari River near Medigadda (V), Mahadevpur (M), Bhupalpally District – Revised Administrative approval - Accorded - Orders – Issued.

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IRRIGATION AND CAD (Projects-IV) DEPARTMENT

G.O.Rt.No.707

Dated:19-05-2018

Read the following:

1. G.O.Rt.No.231, I&CAD (Projects-II) Dept. Dt.01-03-2016.
2. From the Engineer-in-Chief (Irrigation), Hyderabad, Lr.No.ENC(I)/DCE(I)/OT2/AEE20/KP Barrages & Lifts/ RE's/ 2018, Dt.30.04.2018.

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ORDER:-

In the reference 1st read above, administrative approval for an amount of Rs.2591.00 Crores has been accorded in respect of the work relating to construction of Barrage across Godavari River near Medigadda (V), Mahadevpur (M), Bhupalpally District with radial gates hoisting arrangements including formation of guide bunds on either side of barrage etc.

2. In the reference 2nd read above, the Engineer-in-Chief (Irrigation), Hyderabad has reported that during the course of implementing the Barrage works and Lifts works of Kaleshwaram Project many variations were encountered due to the following broad reasons.

- a) Locations of barrages "Sundilla and Annaram" had to be shifted, as much larger Land Acquisition would have been required at their original locations after detailed survey and study.
- b) The live capacity of the barrages especially Sundilla was coming lesser than the optimum requirement and the capacities of both barrages is worked out much higher at the new locations.
- c) The length of the barrages had to be changed as per the maximum flood discharge, afflux desirable and the width of the river at the revised locations.
- d) Changes in the approach and gravity canals under the lift systems consequent to the change in location of the barrages.
- e) Necessity for providing flood banks on either banks of Godavari near barrages to prevent submergence and flooding of fields and villages at F.R.L conditions and during maximum flood periods. This was not considered in the D.P.R proposals by the WAPCOS. Also diversions have become essential to prevent flooding in rainy seasons which has to be safely negotiated at all the barrages. The reduction in L.A. due to provision of flood banks is about 13,981 Acres and R&R issues in 12 villages.
- f) Changes in the design requirements as per the site conditions and detailed engineering as per the required norms approved by the C.D.O (Central Designs Organization) involving foundations, RCC etc.,

Contd...2.

g) Provision for draft tubes & connected embedded parts in the Pump Houses to facilitate future expansion of lifting capacity from 2 TMC to 3 TMC per day from the Pump Houses.

h) Increase in number of gates in the barrages due to increase in length and discharge requirements as per model studies of T.S.E.R.L

3. He further reported that all the detailed plans of barrages, flood banks, diversions and locations of approach and gravity canals, delivery cisterns etc, are finalized by the C.D.O (Central Designs organization) based on the ground details furnished by the Chief Engineer, Kaleshwaram Project, Karimnagar. He therefore, requested for revised administrative approval for an amount of Rs.3260 Crs in respect of the work.

4. The reasons for the revised cost of the Medigadda Barrage reported are mainly due to the following:-

- a) Increase in the quantity of the earthwork on river banks due to the Barrage length of 1632M against the River width of 1275M, and Hard rock met with the excavation on the banks.
- b) Decrease in earthwork formation of guide bunds as per the approved design and drawing of CE/CDO.
- c) Increase in concrete quantity due to increase in foundation depth, length of pier, wear coat thickness, apron length as per CE/CDO drawings.
- d) Increase in reinforcement as per detailed structural design and drawing approved by CE/CDO.
- e) Increase in launching Apron width as per CE/CDO drawings.
- f) Increase in dewatering as per site conditions.
- g) Provision of Secant Piles in place of Z-Sheet Piles as per sub soil strata.
- h) Increase in hoist capacity due to higher grade steel considered as per CE/CDO approved drawings.
- i) Decrease in the cost of instrumentation, SCADA, and Dam illumination provisions.
- j) Provision of new additional works of Flood Banks, Diversion Canal and Approach road in order to minimize submergence area, diverting the streams to downstream side, making connectivity to barrage site from the nearest main road respectively.

5. After careful examination of the proposal, Government hereby accord revised administrative approval for the work relating to construction of a Medigadda Barrage across Godavari river near Medigadda (V), Mahadevpur(M), Bhupalpally District with radial Gates hoisting arrangement including formation of guide bunds on either side of the Barrage for an amount of Rs.3260.00 Crores (Rupees Three Thousand Two Hundred and Sixty Crores Only), with permission to entrust the new additional works of flood banks, diversion channel, and approach road to the existing Agency, subject to the following conditions:

- 1) The Chief Engineer is responsible for the provisions made in the Revised Estimates and ensure that the provisions made are in accordance with IS codes and standard specifications.

- 2) The Chief Engineer should ensure the correctness of quantities provided in the revised estimates.
 - 3) The Chief Engineer should ensure obtaining their recommendations/ approval -
(i) Placing the RE before Committee of CEs, (ii) Execution / entrustment of additional item as per specific codal provisions (6-(3) under para 154 of D code & other provision), (iii) Following of extant Financial codal provisions regarding expenditure.
6. The expenditure shall be debited to the following Head of Account:
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|---------|---|-------------------------------------|
| 4700 | - | Capital Outlay on Major Irrigation |
| 01 | - | Major Irrigation – Commercial |
| MH | - | 232 – Kaleshwaram Project |
| GH | - | 25 – State Sector Schemes |
| SH | - | 26 – Dams & Other Appurtenant works |
| 530/531 | - | Other Expenditure. |
7. This order issues with the concurrence of Finance (WP) Department vide their U.O.No.001874/133/WP/A1/2018, Dt.16-05-2018.
8. The Engineer-in-Chief (Irrigation), Hyderabad shall take necessary action accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF TELANGANA)

**DR. SHAILENDRA KUMAR JOSHI
CHIEF SECRETARY TO GOVERNMENT &
SPL. CHIEF SECRETARY TO GOVERNMENT
I&CAD DEPARTMENT (FAC)**

To
The Engineer-in-Chief (Irrigation), Hyderabad
The Accountant General, Hyderabad.
The Director of Works and Accounts, Hyderabad.
The Assistant Pay & Account Officer, Bhupalpally.

Copy to:

The Chief Engineer, Kaleshwaram Project, Karimnagar.
The PS to Spl. Chief Secretary to Government, I&CAD Dept (FAC)
The Finance (WP) Department.
The PS to Hon'ble Minister (Irrigation)

// FORWARDED : : BY ORDER //

SECTION OFFICER